Sept. 30, 1969 R. H. RICHMOND, JR 3,469,747

STORAGE CAN FOR FLAMMABLE LIQUIDS

Filed Sept. 22, 1967 2 Sheets-Sheet 1

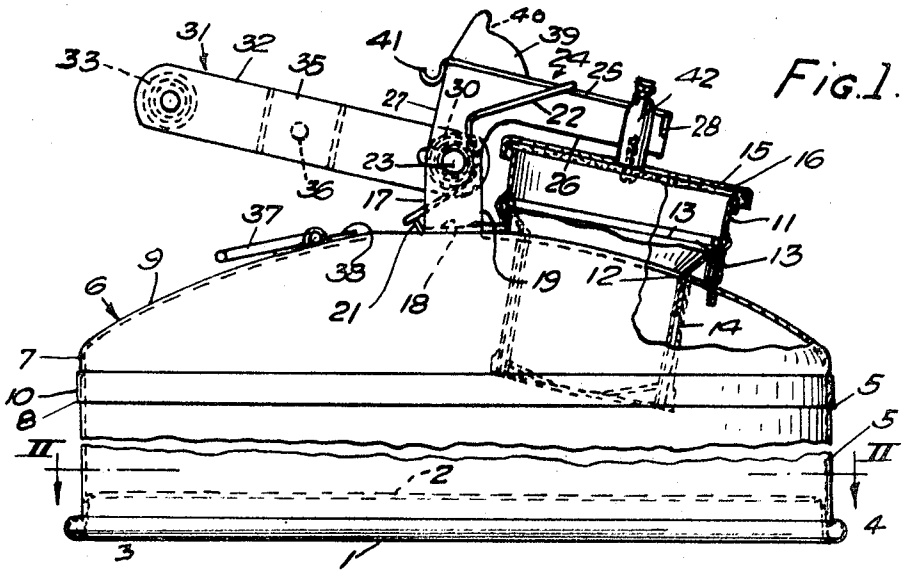

FIG. 1.

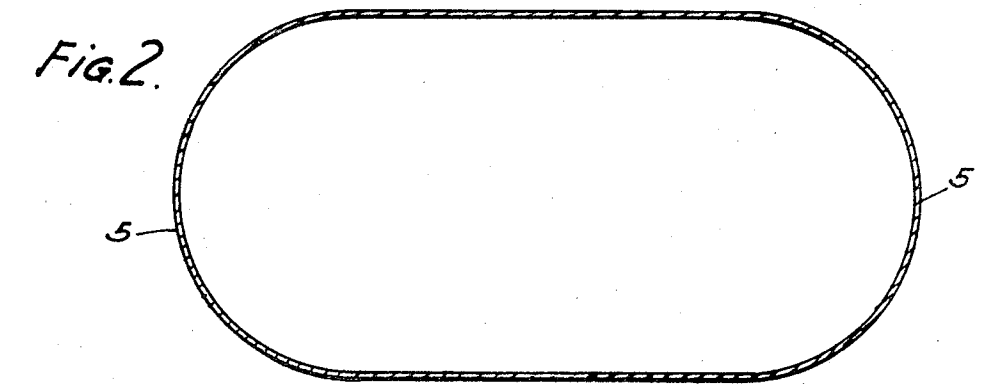

FIG. 2.

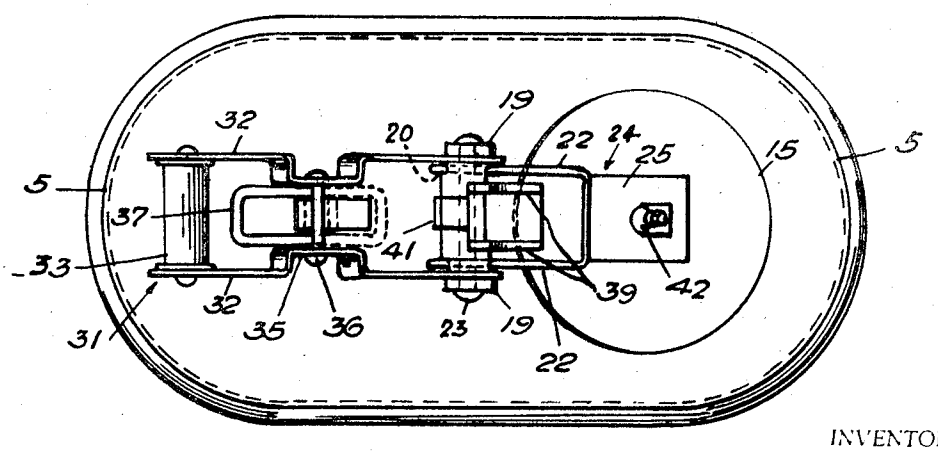

FIG. 3.

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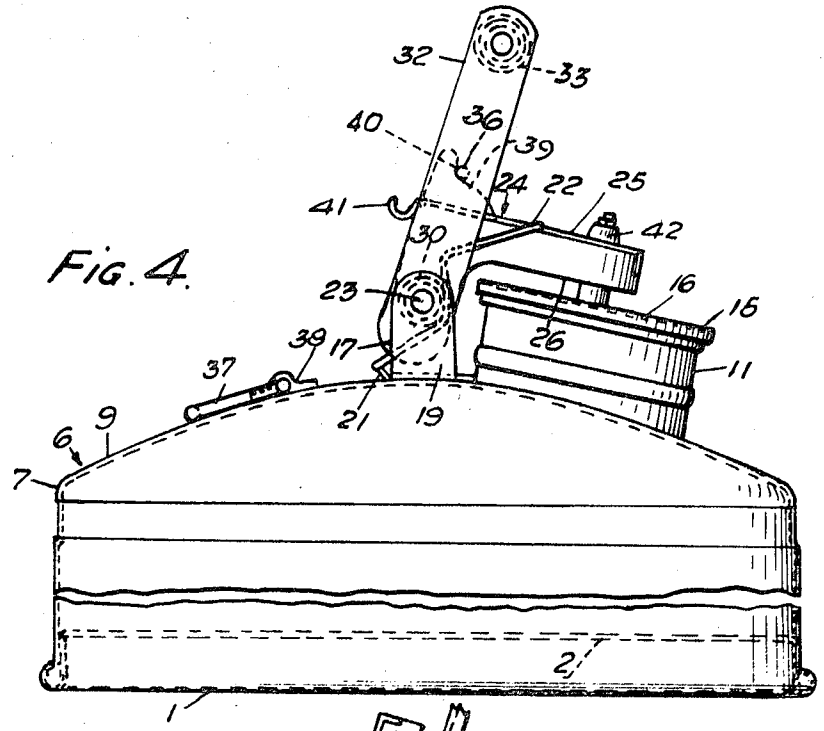
FIG. 4.



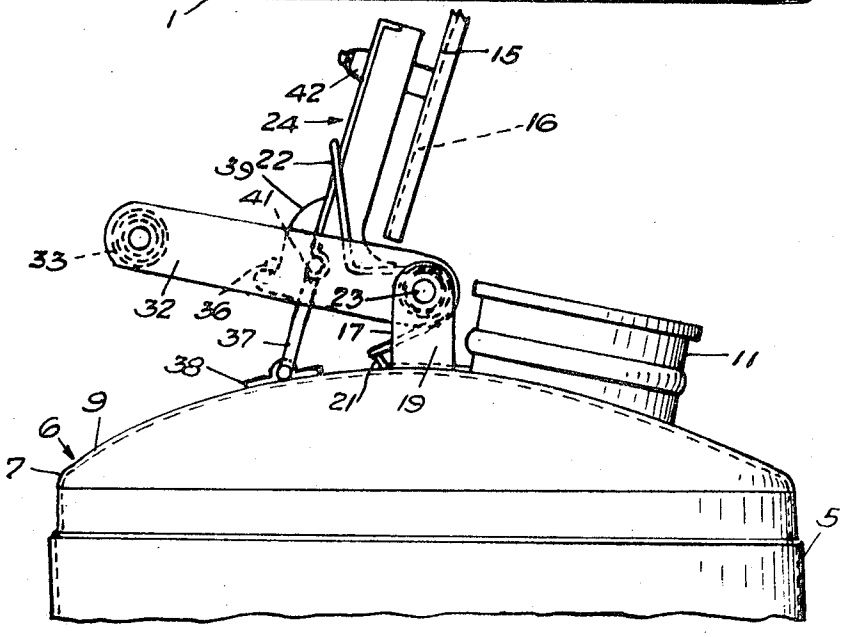


FIG. 5.

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STORAGE CAN FOR FLAMMABLE LIQUIDS

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U.S. Cl. 222—469 2 Claims

ABSTRACT OF THE DISCLOSURE

The invention relates to flammable liquid storage cans having a carrying handle controller pour spout.

Field of invention

The invention relates to safety storage cans for flammable liquids.

Summary of the invention

The invention is concerned with a storage can for flammable liquids provided with a pour spout and closure cap which are under the selective control of a can-carrying handle which selectively actuates the opening and closing of spring-loaded can pour spout closure cap, whereby the said handle can be selectively actuated, to carry the can without actuation of the closure cap to raise the spring-loaded closure cap to facilitate pouring of liquid from the can and to lock the closure cap in open position for filling the can.

Description of drawing

Referring now to the drawing:

FIG. 1 shows a side elevation of the storage can, with the mid-portion of the body broken away;

FIG. 2 shows a cross-section of the can body;

FIG. 3 shows a plan view of the can of FIG. 1;

FIG. 4 shows a side elevation of the can with the handle in position to raise the pour spout cap; and

FIG. 5 shows the handle in position to retain the cap in spaced relation to the pour spout for either pouring fluid from the can or filling the can with fluid.

Description of preferred embodiment

The can bottom **1** is preferably eliptical in shape having a top surface **2** and depending side and end walls **3** which may be rounded as at **4**. The can body **5** is also eliptical in shape encloses the bottom side and end walls **3** and is secured thereto in any suitable manner as by welding. The can bottom top wall **2** is thus spaced above the surface on which the can rests to prevent rusting. The can top wall **6** may be of any suitable shape and is shown as having planar sides **7**, rounded end walls **8**, and a domed top wall **9**. The top wall **9** encloses the open top of the can body by means of flange **10**. A pour spout **11**, preferably circular is mounted in can top **9** as shown in FIG. 1. Suspended within the pour spout and depending therefrom is a fire baffle ring **12** which is retained in place by a lock sepring **13**. A double perforated walled fire baffle **14** is suspended from the fire baffle ring **12**. The exposed end of pour spout **11** is closed by a cap **15** having a composition gasket **16** therein.

Mounted upon the can top wall **9**, at the centerline thereof, is an earplate or fulcrum support **17** comprised of a base portion **18** secured to the can top wall and an upstanding portion **19** at each end of base portion **18**. Extending longitudinally of base **18** is an upwardly extending portion **21** providing an abutment for the ends of a spring member **22**. The portions **19** have aligned openings **20** therein for reception of a connecting pin **23**. Pivotally mounted upon pin **23** is a bell crank **24** comprised of a top wall **25** depending sidewalls **26** having at

one end extensions **27** and at the opposite end a connecting wall **28**. Said extensions **27** have aligned openings **29** therein for reception of a bell crank bearing member **30** mounted upon said pin **23**. Pivotally mounted on pin **23** is a handle assembly **31** comprised of two spaced bail strips **32**, each having their outer ends connected by a handle grid member **33** and their inner ends pivotally mounted upon pin **23** in overlapping engagement with fulcrum support **18** and connected therewith by pin **23** entered through the elongated slotted openings **34** of the bail strips **32**. Intermediate their ends, the bail strips **32** are inwardly offset as at **35** and connected by a pin **36**. Mounted upon the can top portion **9**, beneath said handle assembly **31**, is a retaining ring **37** pivotally connected with said can portion **9** by a suitable clamp member **38**. Upon the top face of bellcrank **24** is mounted a bellcrank extension member **39** having a notched top face **40** and a bottom hook shaped portion **41**. Bellcrank **24** has one end overlying the can pour spout opening **11** which is closed by a suitable cap member **15** having an inner gasket **16** normally sealing the pour spout opening. The cap member **15** and gasket **16** are connected to the adjacent end of the bellcrank **24** by means of a suitable member **42**. The bellcrank and attached cap is normally held in sealing position over the pour spout opening by means of the generally U-shaped spring member **22** which straddles the bellcrank and has its ends underlying the bellcrank fulcrum pin **23** and bearing upon extension **21** of the fulcrum support **17**.

Referring now to FIGS. 1, 4 and 5 of the drawing the storage can may be carried by means of the handle **31** with the can body depending vertically therefrom. Should it be desired to pour the contents of the can through the pour spout **11**, the handle **31** may be raised and rotated slightly beyond the vertical center-line of the can body, as in FIG. 4 and the handle pushed towards the can body to permit the handle bail members to move downwardly to engage the pin **36** with the hook shaped portion **40** in the underlying bellcrank extension member **39**. Thereafter the handle may be rotated in a counter clockwise direction to rotate bellcrank arm **24** and raise the pour spout cap **15** whereby the can can be tilted to pour the contents from the can.

Should the can be empty and it is desired to fill same with a suitable liquid, the handle **31** and bail arms would be actuated as for pouring to raise the cap **15** and at the same time, upon continued reverse rotation of the handle **31**, the bellcrank **24** will be rotated to position the bellcrank extension member hook **41** to be engaged by the retaining ring **37** as in FIG. 5. The handle may now be released and the pour spout cap **15** will remain open so that the can may be refilled through the pour spout opening. To close the cap the handle is depresed for disengagement of ring **37** and rotated to close cap **15**.

It will be understood that many detail changes may be made in the can, the carrying handle and the means for raising the cap from over the pour spout opening, etc. without departing from the invention as defined in the claims.

I claim:

1. A safety storage can for flammable and non-flammable liquids comprising:

(a) a can body having connected side walls, end walls, top wall and bottom wall,

(b) a pour spout mounted in said top wall and extending thereabove,

(c) a spring loaded closure cap for the exposed face of the pour spout,

(d) a carrying bail pivotally attached to said can body in rearward spaced relation to said pour spout, and,

(e) means associated with said bail, the can body and the closure cap for selectively raising said closure

cap for pouring liquid from said storage can and for locking said closure cap in raised position for filling said can with liquids, comprising

(f) a pair of spaced ear plates secured to and extending above said can body rearwardly said pour spout,

(g) a pair of bail handle strips pivotally mounted at one end upon said ear plates by means of a transverse pin extending through one end of said bail strips and said ear plates,

(h) a slotted connection between said bail handle strips and said transverse pin for movement of the bail strips transversely of said pin,

(i) a handle member disposed between and connected with the opposite ends of said bail handle strips,

(j) a transverse member connecting said bail strips intermediate the bail handle member and transverse connecting pin thereof,

(k) a bell crank pivotally mounted upon said ear plate connecting pin having a portion normally extending vertically above the said pin and a portion extending laterally therefrom in overlying relation to said spout cap,

(l) a connection between said latter bell crank portion and said spout cap,

(m) an extension member mounted on said vertically extending bell crank portion and positioned to be free of said handle when the latter is raised to can carrying position and engagable with said bail transverse member when the raised handle is pushed downwardly on its slotted pivotal connection with the ear plate transverse connecting pin, whereby selective reverse rotation of the handle raises the bell crank and associated spout cap to permit pouring of the can's contents through the pour spout.

2. The combination as defined in claim 1, wherein a handle retaining ring is pivotally mounted upon the top face of the can body rearwardly of said bail handle ear plates and said bell crank having a rearwardly extending arcuate portion to be selectively engaged by said retaining ring after the bail handle is rotated to move the pour spout cap from its position over the pour spout.

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222—189, 517